LISTE DE SEQUENCES

<110> AVENTIS PHARMA
INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE M

<120> COMPOSES CAPABLES DE MODULER L'ACTIVITE DE LA PARKINE, SEQUENCES NUCLEOTIDIQUES ET UTILISATIONS

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<170> PatentIn Ver. 2.1

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Phe Arg His Gly Ser Leu Ile Ser Ile Asp Ser Thr Cys Thr Glu Met
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His Tyr Cys Phe Lys Thr His Ser Leu Glu Ile Cys Ile Lys Ala Cys
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Ser Phe Arg Trp His Pro Leu Arg Ala Lys Ala Glu Lys Tyr Glu Asp
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Ser Val Pro Gln Ser Asn Gly Glu Leu Thr Val Arg Ala Lys Leu Val
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Pro His Cys Pro Gly Thr Ser Ala Glu Phe Phe Phe Lys Cys Gly Ala
65                  70                  75                  80

cac ccc acc tct gac aag gaa aca tca gta gct ttg cac ctg atc gca
288
His Pro Thr Ser Asp Lys Glu Thr Ser Val Ala Leu His Leu Ile Ala
                85                  90                  95

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336
Thr Asn Ser Arg Asn Ile Thr Cys Ile Thr Cys Thr Asp Val Arg Ser
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Pro Val Leu Val Phe Gln Cys Asn Ser Arg His Val Ile Cys Leu Asp
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tgt ttc cac tta tac tgt gtg aca aga ctc aat gat cgg cag ttt gtt
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Trp Asp Asp Val Leu Ile Pro Asn Arg Met Ser Gly Glu Cys Gln Ser
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Pro His Cys Pro Gly Thr Ser Ala Glu Phe Phe Phe Lys Cys Gly Ala
 65                  70                  75                  80
His Pro Thr Ser Asp Lys Glu Thr Ser Val Ala Leu His Leu Ile Ala
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Thr Asn Ser Arg Asn Ile Thr Cys Ile Thr Cys Thr Asp Val Arg Ser
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Pro Val Leu Val Phe Gln Cys Asn Ser Arg His Val Ile Cys Leu Asp
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Cys Phe His Leu Tyr Cys Val Thr Arg Leu Asn Asp Arg Gln Phe Val
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Lys Gly Ala Lys Asn Thr Asp Trp Glu His Lys Glu Lys Cys Cys Ala
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Arg Cys Gln Gln Val Leu Gly Phe Leu Leu His Arg Gly Ala Val Cys
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Arg Gly Cys Ser His Arg Val Cys Ala Gln Cys Arg Val Phe Leu Arg
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Val Ser Glu Ser Gln Cys Ser Arg Ser Pro Gly Arg Leu Gln Glu Phe
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Ser Glu Lys His Leu Leu Ala Thr Gly Pro Arg Gln Cys Val Gly Gln
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Lys Val Ser Ala Pro Asp Ile Leu Lys Pro Leu Asn Gln Glu Asp Pro
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Lys Cys Ser Thr Asn Pro Ile Leu Lys Gln Gln Asn Leu Pro Ser Ser
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Cys Lys Asn Leu Ala Tyr Gly Glu Glu Lys Lys Lys Lys Cys Asn Pro
35 40 45

Tyr Val Lys Thr Tyr Leu Leu Pro Asp Arg Ser Ser Gln Gly Lys Arg
50 55 60

Lys Thr Gly Val Gln Arg Asn Thr Val Asp Pro Thr Phe Gln Glu Thr
65 70 75 80

Leu Lys Tyr Gln Val Ala Pro Ala Gln Leu Val Thr Arg Gln Leu Gln
85 90 95

Val Ser Val Trp His Leu Gly Thr Leu Ala Arg Arg Val Phe Leu Gly
100 105 110

Glu Val Ile Ile Pro Leu Ala Thr Trp Asp Phe Glu Asp Ser Thr Thr

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        115                 120                 125

Gln Ser Phe Arg Trp His Pro Leu Arg Ala Lys Ala Glu Lys Tyr Glu
    130                 135                 140

Asp Ser Val Pro Gln Ser Asn Gly Glu Leu Thr Val Arg Ala Lys Leu
145                 150                 155                 160

Val Leu Pro Ser Arg Pro Arg Lys Leu Gln Glu Ala Gln Glu Gly Thr
                165                 170                 175

Asp Gln Pro Ser Leu His Gly Gln Leu Cys Leu Val Val Leu Gly Ala
            180                 185                 190

Lys Asn Leu Pro Val Arg Pro Asp Gly Thr Leu Asn Ser Phe Val Lys
        195                 200                 205

Gly Cys Leu Thr Leu Pro Asp Gln Gln Lys Leu Arg Leu Lys Ser Pro
    210                 215                 220

Val Leu Arg Lys Gln Ala Cys Pro Gln Trp Lys His Ser Phe Val Phe
225                 230                 235                 240

Ser Gly Val Thr Pro Ala Gln Leu Arg Gln Ser Ser Leu Glu Leu Thr
                245                 250                 255

Val Trp Asp Gln Ala Leu Phe Gly Met Asn Asp Arg Leu Leu Gly Gly
            260                 265                 270

Thr Arg Leu Gly Ser Lys Gly Asp Thr Ala Val Gly Gly Asp Ala Cys
        275                 280                 285

Ser Gln Ser Lys Leu Gln Trp Gln Lys Val Leu Ser Ser Pro Asn Leu
    290                 295                 300

Trp Thr Asp Met Thr Leu Val Leu His
305                 310
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<210> 16
<211> 19
<212> ADN
<213> Séquence artificielle

<220>
<223> Description de la séquence artificielle:
oligonucleotide

<400> 16
ccagttctgc ctgttcatc
19

<210> 17
<211> 20
<212> ADN
<213> Séquence artificielle

<220>
<223> Description de la séquence artificielle:
oligonucleotide

<400> 17
ttcaaaacac agaggaggag
20

<210> 18
<211> 20
<212> ADN
<213> Séquence artificielle

<220>
<223> Description de la séquence artificielle:
oligonucleotide

<400> 18
gaatttggtc agtttagagg
20

<210> 19
<211> 26
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<213> Séquence artificielle

<220>
<223> Description de la séquence artificielle:
oligonucleotide

<400> 19
ttctgggatt tggagagctt tttcac
26

<210> 20

<211> 22
<212> ADN
<213> Séquence artificielle

<220>
<223> Description de la séquence artificielle:
oligonucleotide

<400> 20
tctgtctgtc ccacacactg cc
22

<210> 21
<211> 19
<212> ADN
<213> Séquence artificielle

<220>
<223> Description de la séquence artificielle:
oligonucleotide

<400> 21
gactggctcc gtctctctg
19

<210> 22
<211> 21
<212> ADN
<213> Séquence artificielle

<220>
<223> Description de la séquence artificielle:
oligonucleotide

<400> 22
aagcaacaga atctcccatc c
21

<210> 23
<211> 21
<212> ADN
<213> Séquence artificielle

<220>
<223> Description de la séquence artificielle:

oligonucleotide

<400> 23
gcattgtcaa aattgcccat c
21

<210> 24
<211> 20
<212> ADN
<213> Séquence artificielle

<220>
<223> Description de la séquence artificielle:
oligonucleotide

<400> 24
aggcggagaa atacgaagac
20

<210> 25
<211> 22
<212> ADN
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<220>
<223> Description de la séquence artificielle:
oligonucleotide

<400> 25
gcagagtgag acagcccttа ac
22

<210> 26
<211> 24
<212> ADN
<213> Séquence artificielle

<220>
<223> Description de la séquence artificielle:
oligonucleotide

<400> 26
cttcctcagg actggcgact tcag
24

<210> 27
<211> 24
<212> ADN
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<220>
<223> Description de la séquence artificielle:
oligonucleotide

<400> 27
caagcggtcg ttcattccaa agag
24

<210> 28
<211> 22
<212> ADN
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<220>
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oligonucleotide

<400> 28
aagaggagat aacccaccag ag
22

<210> 29
<211> 20
<212> ADN
<213> Séquence artificielle

<220>
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oligonucleotide

<400> 29
agggctgctg gctatttttc
20

<210> 30
<211> 19
<212> ADN
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oligonucleotide

<400> 30
taagaaatgg gttgtgaac
19

<210> 31
<211> 21
<212> ADN
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oligonucleotide

<400> 31
aagcaacaga atctcccatc c
21

<210> 32
<211> 21
<212> ADN
<213> Séquence artificielle

<220>
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oligonucleotide

<400> 32
gcattgtcaa aattgcccat c
21

<210> 33
<211> 20
<212> ADN
<213> Séquence artificielle

<220>
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oligonucleotide

<400> 33
aggcggagaa atacgaagac

20

<210> 34
<211> 22
<212> ADN
<213> Séquence artificielle

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oligonucleotide

<400> 34
gcagagtgag acagcccttа ac
22

<210> 35
<211> 24
<212> ADN
<213> Séquence artificielle

<220>
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oligonucleotide

<400> 35
cttcctcagg actggcgact tcag
24

<210> 36
<211> 24
<212> ADN
<213> Séquence artificielle

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oligonucleotide

<400> 36
caagcggtcg ttcattccaa agag
24

<210> 37
<211> 22
<212> ADN

<213> Séquence artificielle

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oligonucleotide

<400> 37
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22

<210> 38
<211> 18
<212> ADN
<213> Séquence artificielle

<220>
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oligonucleotide

<400> 38
aatggaaggg cgtgacgc
18

<210> 39
<211> 21
<212> ADN
<213> Séquence artificielle

<220>
<223> Description de la séquence artificielle:
oligonucleotide

<400> 39
cctcacgcct gctgcaacct g
21

<210> 40
<211> 31
<212> ADN
<213> Séquence artificielle

<220>
<223> Description de la séquence artificielle:
oligonucleotide

<400> 40
gcacgaattc atggcccaag aaatagatct g
31

<210> 41
<211> 24
<212> ADN
<213> Séquence artificielle

<220>
<223> Description de la séquence artificielle:
oligonucleotide

<400> 41
ctgtcttcgt atttctccgc cttg
24

<210> 42
<211> 2347
<212> ADN
<213> Homo sapiens

<400> 42
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gggaagaggc gttgcccctg ctggcatagt caggtaccag cccagccagg tattgaacgg
120
gctgagcttt tcatgatggt tcctgctgac ctggaaacat cttaaatgga agggcgtgag
180
cgcttggtcc atgcagtgaa gctcttccaa cctgggtcaa cgaaaacgga gaagaaatgg
240
cccaagaaat agatctgagt gctctcaagg agttagaacg cgaggccatt ctccaggtcc
300
tgtaccgaga ccaggcggtt caaaacacag aggaggagag gacacggaaa ctgaaaacac
360
acctgcagca tctccggtgg aaaggagcga agaacacgga ctgggagcac aaagagaagt
420
gctgtgcgcg ctgccagcag gtgctggggt tcctgctgca ccggggcgcc gtgtgccggg
480
gctgcagcca ccgcgtgtgt gcccagtgcc gagtgttcct gaggggggacc catgcctgga
540
agtgcacggt gtgcttcgag gacaggaatg tcaaaataaa aactggagaa tggttctatg
600
aggaacgagc caagaaattt ccaactggag gcaaacatga gacagttgga gggcagctct
660
tgcaatctta tcagaagctg agcaaaattt ctgtggttcc tcctactcca cctcctgtca

720
gcgagagcca gtgcagccgc agtcctggca ggttacagga atttggtcag tttagaggat
780
ttaataagtc cgtggaaaat ttgtttctgt ctcttgctac ccacgtgaaa aagctctcca
840
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tgggacagac agagagacgg agccagtctg acactgcggt caacgtcacc accaggaagg
960
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1080
gttttagaca cggaagttta attagcattg acagcacctg tacagagatg ggcaattttg
1140
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1200
ctttagaaat atgcatcaag gcctgtaaga accttgccta tggagaagaa aagaagaaaa
1260
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1320
agactggagt ccaaaggaac accgtggacc cgacctttca ggagaccttg aagtatcagg
1380
tggcccctgc ccagctggtg acccggcagc tgcaggtctc ggtgtggcat ctgggcacgc
1440
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1800
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1860
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1920
tgaacgaccg cttgcttgga ggaaccagac ttggttcaaa gggagacaca gctgttggcg
1980
gggatgcatg ctcacaatcg aagctccagt ggcagaaagt cctttccagc cccaatctat
2040
ggacagacat gactcttgtc ctgcactgac atgaaggcct caaggttcca ggttgcagca
2100
ggcgtgaggc actgtgcgtc tgcagagggg ctacgaacca ggtgcagggt cccagctgga

2160
gacccctttg accttgagca gtctccatct gcggccctgt cccatggctt aaccgcctat
2220
tggtatctgt gtatatttac gttaaacaca attatgttac ctaagcctct ggtgggttat
2280
ctcctctttg agatgtagaa aatggccaga ttttaataaa cgttgttacc catgaaaaaa
2340
aaaaaaa
2347

<210> 43
<211> 610
<212> PRT
<213> Homo sapiens

<400> 43
Met Ala Gln Glu Ile Asp Leu Ser Ala Leu Lys Glu Leu Glu Arg Glu
1 5 10 15

Ala Ile Leu Gln Val Leu Tyr Arg Asp Gln Ala Val Gln Asn Thr Glu
20 25 30

Glu Glu Arg Thr Arg Lys Leu Lys Thr His Leu Gln His Leu Arg Trp
35 40 45

Lys Gly Ala Lys Asn Thr Asp Trp Glu His Lys Glu Lys Cys Cys Ala
50 55 60

Arg Cys Gln Gln Val Leu Gly Phe Leu Leu His Arg Gly Ala Val Cys
65 70 75 80

Arg Gly Cys Ser His Arg Val Cys Ala Gln Cys Arg Val Phe Leu Arg
85 90 95

Gly Thr His Ala Trp Lys Cys Thr Val Cys Phe Glu Asp Arg Asn Val
100 105 110

Lys Ile Lys Thr Gly Glu Trp Phe Tyr Glu Glu Arg Ala Lys Lys Phe
115 120 125

Pro Thr Gly Gly Lys His Glu Thr Val Gly Gly Gln Leu Leu Gln Ser
130 135 140

Tyr Gln Lys Leu Ser Lys Ile Ser Val Val Pro Pro Thr Pro Pro Pro
145 150 155 160

Val Ser Glu Ser Gln Cys Ser Arg Ser Pro Gly Arg Leu Gln Glu Phe

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                    165                 170                 175

Gly Gln Phe Arg Gly Phe Asn Lys Ser Val Glu Asn Leu Phe Leu Ser
            180                 185                 190

Leu Ala Thr His Val Lys Lys Leu Ser Lys Ser Gln Asn Asp Met Thr
        195                 200                 205

Ser Glu Lys His Leu Leu Ala Thr Gly Pro Arg Gln Cys Val Gly Gln
    210                 215                 220

Thr Glu Arg Arg Ser Gln Ser Asp Thr Ala Val Asn Val Thr Thr Arg
225                 230                 235                 240

Lys Val Ser Ala Pro Asp Ile Leu Lys Pro Leu Asn Gln Glu Asp Pro
                245                 250                 255

Lys Cys Ser Thr Asn Pro Ile Leu Lys Gln Gln Asn Leu Pro Ser Ser
            260                 265                 270

Pro Ala Pro Ser Thr Ile Phe Ser Gly Gly Phe Arg His Gly Ser Leu
        275                 280                 285

Ile Ser Ile Asp Ser Thr Cys Thr Glu Met Gly Asn Phe Asp Asn Ala
    290                 295                 300

Asn Val Thr Gly Glu Ile Glu Phe Ala Ile His Tyr Cys Phe Lys Thr
305                 310                 315                 320

His Ser Leu Glu Ile Cys Ile Lys Ala Cys Lys Asn Leu Ala Tyr Gly
                325                 330                 335

Glu Glu Lys Lys Lys Lys Cys Asn Pro Tyr Val Lys Thr Tyr Leu Leu
            340                 345                 350

Pro Asp Arg Ser Ser Gln Gly Lys Arg Lys Thr Gly Val Gln Arg Asn
        355                 360                 365

Thr Val Asp Pro Thr Phe Gln Glu Thr Leu Lys Tyr Gln Val Ala Pro
    370                 375                 380

Ala Gln Leu Val Thr Arg Gln Leu Gln Val Ser Val Trp His Leu Gly
385                 390                 395                 400

Thr Leu Ala Arg Arg Val Phe Leu Gly Glu Val Ile Ile Pro Leu Ala
                405                 410                 415

Thr Trp Asp Phe Glu Asp Ser Thr Thr Gln Ser Phe Arg Trp His Pro
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420 425 430

Leu Arg Ala Lys Ala Glu Lys Tyr Glu Asp Ser Val Pro Gln Ser Asn
435 440 445

Gly Glu Leu Thr Val Arg Ala Lys Leu Val Leu Pro Ser Arg Pro Arg
450 455 460

Lys Leu Gln Glu Ala Gln Glu Gly Thr Asp Gln Pro Ser Leu His Gly
465 470 475 480

Gln Leu Cys Leu Val Val Leu Gly Ala Lys Asn Leu Pro Val Arg Pro
485 490 495

Asp Gly Thr Leu Asn Ser Phe Val Lys Gly Cys Leu Thr Leu Pro Asp
500 505 510

Gln Gln Lys Leu Arg Leu Lys Ser Pro Val Leu Arg Lys Gln Ala Cys
515 520 525

Pro Gln Trp Lys His Ser Phe Val Phe Ser Gly Val Thr Pro Ala Gln
530 535 540

Leu Arg Gln Ser Ser Leu Glu Leu Thr Val Trp Asp Gln Ala Leu Phe
545 550 555 560

Gly Met Asn Asp Arg Leu Leu Gly Gly Thr Arg Leu Gly Ser Lys Gly
565 570 575

Asp Thr Ala Val Gly Gly Asp Ala Cys Ser Gln Ser Lys Leu Gln Trp
580 585 590

Gln Lys Val Leu Ser Ser Pro Asn Leu Trp Thr Asp Met Thr Leu Val
595 600 605

Leu His
610

<210> 44
<211> 1648
<212> ADN
<213> Homo sapiens

<400> 44
gaaatcatgc ccctcgtaga gcagcaggtc caagcagggc tgctggctat ttttccaaaa
60
agtgaggcag tttaaaaaaa aggcggagaa ctagaattat agaataatgg cacattttgt

120
gtatttgtaa aactaacggc ttgcatggtt cacaacccat ttcttatgcc tgtgttttcc
180
ttggcagcaa aatttctgtg gttcctccta ctccacctcc tgtcagcgag agccagtgca
240
gccgcagtcc tggcaggaag gtcagtgcac cagatattct gaaacctctc aatcaagagg
300
atcccaaatg ctctactaac cctattttga agcaacagaa tctcccatcc agtccggcac
360
ccagtaccat attctctgga ggttttagac acggaagttt aattagcatt gacagcacct
420
gtacagagat gggcaatttt gacaatgcta atgtcactgg agaaatagaa tttgccattc
480
attattgctt caaaacccat tctttagaaa tatgcatcaa ggcctgtaag aaccttgcct
540
atggagaaga aaagaagaaa aagtgcaatc cgtatgtgaa gacctacctg ttgcccgaca
600
gatcctccca gggaaagcgc aagactggag tccaaaggaa caccgtggac ccgacctttc
660
aggagacctt gaagtatcag gtggcccctg cccagctggt gacccggcag ctgcaggtct
720
cggtgtggca tctgggcacg ctggcccgga gagtgtttct tggagaagtg atcattcctc
780
tggccacgtg ggactttgaa gacagcacaa cacagtcctt ccgctggcat ccgctccggg
840
ccaaggcgga gaaatacgaa gacagcgttc ctcagagtaa tggagagctc acagtccggg
900
ctaagctggt tctcccttca cggcccagaa aactccaaga ggctcaagaa gggacagatc
960
agccatcact tcatggtcaa ctttgtttgg tagtgctagg agccaagaat ttacctgtgc
1020
ggccagatgg caccttgaac tcatttgtta agggctgtct cactctgcca gaccaacaaa
1080
aactgagact gaagtcgcca gtcctgagga agcaggcttg cccccagtgg aaacactcat
1140
ttgtcttcag tggcgtaacc ccagctcagc tgaggcagtc gagcttggag ttaactgtct
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gggatcaggc cctctttgga atgaacgacc gcttgcttgg aggaaccaga cttggttcaa
1260
agggagacac agctgttggc ggggatgcat gctcacaatc gaagctccag tggcagaaag
1320
tcctttccag ccccaatcta tggacagaca tgactcttgt cctgcactga catgaaggcc
1380
tcaaggttcc aggttgcagc aggcgtgagg cactgtgcgt ctgcagaggg gctacgaacc
1440
aggtgcaggg tcccagctgg agaccccttt gaccttgagc agtctccatc tgcggccctg
1500
tcccatggct taaccgccta ttggtatctg tgtatattta cgttaaacac aattatgtta

1560
cctaagcctc tggtgggtta tctcctcttt gagatgtaga aaatggccag attttaataa
1620
acgttgttac ccatgaaaaa aaaaaaaa
1648

<210> 45
<211> 313
<212> PRT
<213> Homo sapiens

<400> 45
Met Gly Asn Phe Asp Asn Ala Asn Val Thr Gly Glu Ile Glu Phe Ala
1 5 10 15

Ile His Tyr Cys Phe Lys Thr His Ser Leu Glu Ile Cys Ile Lys Ala
20 25 30

Cys Lys Asn Leu Ala Tyr Gly Glu Glu Lys Lys Lys Lys Cys Asn Pro
35 40 45

Tyr Val Lys Thr Tyr Leu Leu Pro Asp Arg Ser Ser Gln Gly Lys Arg
50 55 60

Lys Thr Gly Val Gln Arg Asn Thr Val Asp Pro Thr Phe Gln Glu Thr
65 70 75 80

Leu Lys Tyr Gln Val Ala Pro Ala Gln Leu Val Thr Arg Gln Leu Gln
85 90 95

Val Ser Val Trp His Leu Gly Thr Leu Ala Arg Arg Val Phe Leu Gly
100 105 110

Glu Val Ile Ile Pro Leu Ala Thr Trp Asp Phe Glu Asp Ser Thr Thr
115 120 125

Gln Ser Phe Arg Trp His Pro Leu Arg Ala Lys Ala Glu Lys Tyr Glu
130 135 140

Asp Ser Val Pro Gln Ser Asn Gly Glu Leu Thr Val Arg Ala Lys Leu
145 150 155 160

Val Leu Pro Ser Arg Pro Arg Lys Leu Gln Glu Ala Gln Glu Gly Thr
165 170 175

Asp Gln Pro Ser Leu His Gly Gln Leu Cys Leu Val Val Leu Gly Ala
180 185 190

Lys Asn Leu Pro Val Arg Pro Asp Gly Thr Leu Asn Ser Phe Val Lys
195 200 205

Gly Cys Leu Thr Leu Pro Asp Gln Gln Lys Leu Arg Leu Lys Ser Pro
210 215 220

Val Leu Arg Lys Gln Ala Cys Pro Gln Trp Lys His Ser Phe Val Phe
225 230 235 240

Ser Gly Val Thr Pro Ala Gln Leu Arg Gln Ser Ser Leu Glu Leu Thr
245 250 255

Val Trp Asp Gln Ala Leu Phe Gly Met Asn Asp Arg Leu Leu Gly Gly
260 265 270

Thr Arg Leu Gly Ser Lys Gly Asp Thr Ala Val Gly Gly Asp Ala Cys
275 280 285

Ser Gln Ser Lys Leu Gln Trp Gln Lys Val Leu Ser Ser Pro Asn Leu
290 295 300

Trp Thr Asp Met Thr Leu Val Leu His
305 310

<210> 46
<211> 21
<212> ADN
<213> Séquence artificielle

<220>
<223> Description de la séquence artificielle:
oligonucleotide

<400> 46
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21